

**FIG. 1****NUCLEOTIDE SEQUENCE**

&gt;Protease C-E (SEQ.ID.NO.:1)

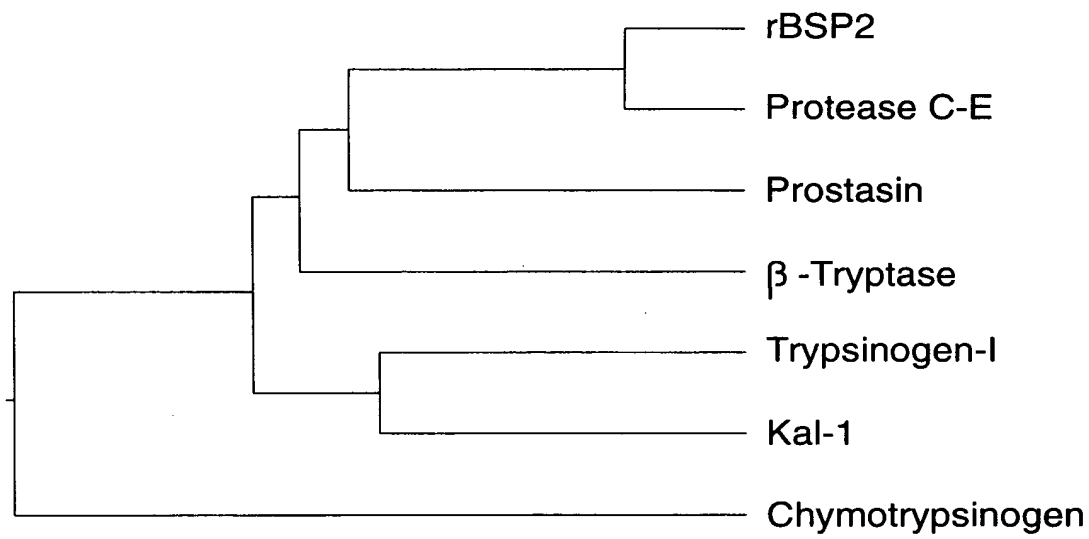
CGTTCCGCCTCCCAGGATAAAACCTGGGGCGACCTGCAGGGAACCTACACA  
CCCTGACCCGCATCGCCCTGGGTCTCTCGAGCCTGCTGCCTGCTCCCCCGC  
CCCACCAGCCATGGTGGTTTCTGGAGCGCCCCAGCCCTGGGTGGGGGCTG  
TCTCGGCACCTTCACCTCCCTGCTGCTGCTGGCGTCGACAGCCATCCTCAA  
TGCGGCCAGGATACCTGTTCCCCCAGCCTGTGGGAAGCCCCAGCAGCTGAA  
CCGGGTGTGGGCGGCGAGGACAGCACTGACAGCGAGTGGCCCTGGATCGT  
GAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCTCTGCTCACCAG  
CCGCTGGGTGATCACTGCTGCCCACTGTTTCAAGGACAACCTGAACAAACC  
ATACGTGTTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAACCCTGGCTC  
TCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCTGTGTATTC  
CTGGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCCTCTCGAGCGCTC  
CATAAGTTCTCAGAGCGGGTCTGCCCCTGCTGCTACCTGATGCCTCTAT  
CCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGGAGCATCCA  
AGATGGAGTTCCTTGCCCCACCCTCAGACCCTGCAGAAGCTGAAGGTTCC  
TATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGAGCAGGACA  
GGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAGGGGGAGCG  
GGATGCTTGTCTGGGCGACTCCGGGGGGCCCCCTCATGTGCCAGGTGGACGG  
CGCTGGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGTGCCGAGCG  
CAACAGGCCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCCTGGGTGGA  
GAAGATCGTGCAAGGGGTGCAGCTCCGCGGGCGCGCTCAGGGGGGTGGGGC  
CCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCGCGCTCCTAGGGCGC  
AGCGGGACGCGGGGCTCGGATCTGAAAGGCGGCCAGATCCAGATCTGGATC  
TGGATCTGCGGCGGCCTCGGGCGGTTTCCCCCGCCGTAAATAGGCTCATCT  
ACCTCTACCTCTGGGGGCCCCGACGGCTGCTGCGGAAAGGAAACCCCTCC  
CCGACCCGCCCCGACGGCCTCAGGCCCCCGCCTCCAAGGCATCAGGCCCCGCC  
CAACGGCCTCATGTCCCCGCCCCCACGACTTCCGGCCCCGCCCCGGGCC  
CAGCGCTTTTGTGTATATAAATGTTAATGATTTTATAGGTATTTGTAACC  
CTGCCCACATATCTTATTTATTCTCCAATTTCAATAAATTATTTATTCTCCA

**AA SEQUENCE**

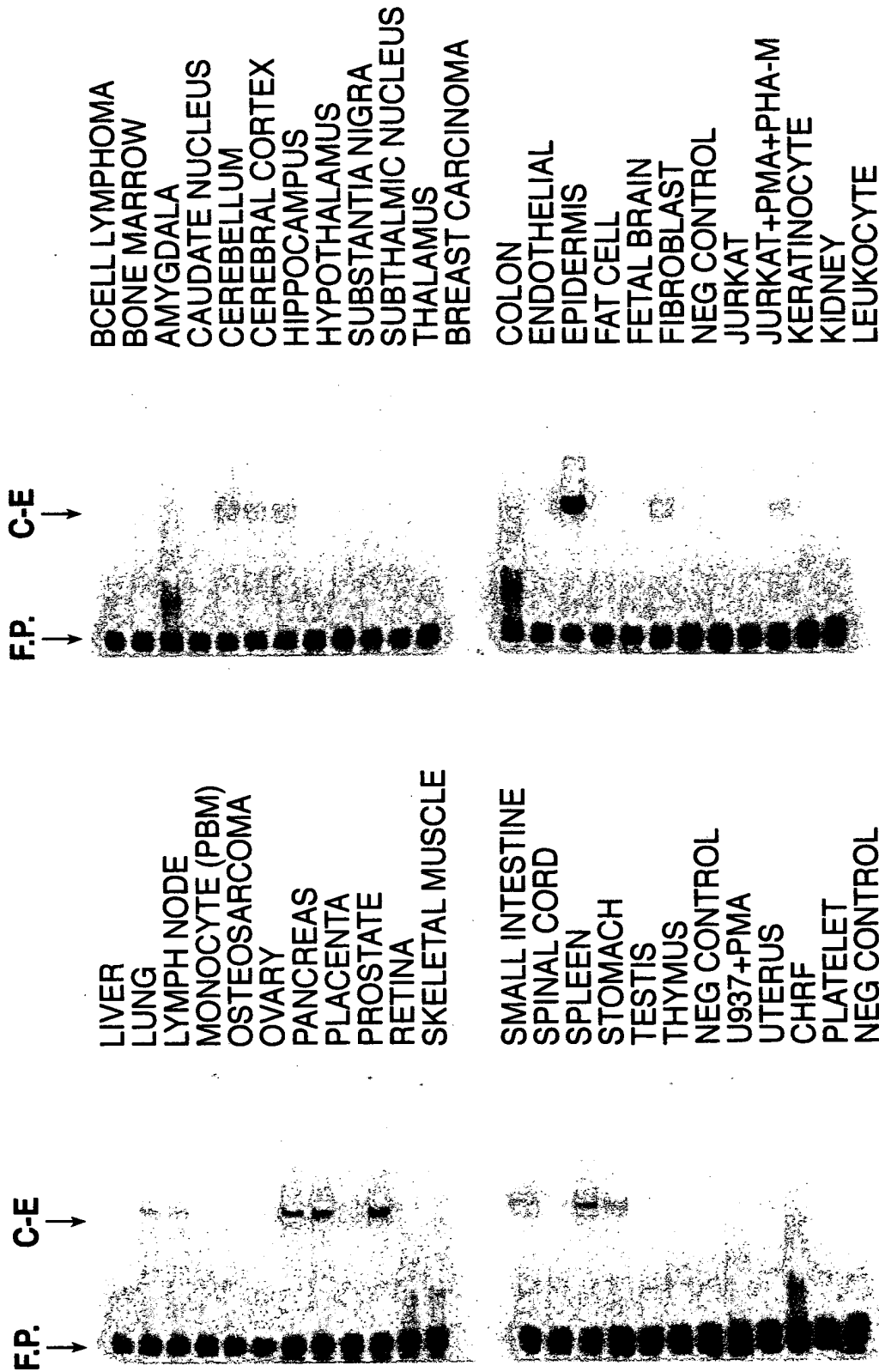
&gt;Protease C-E (SEQ.ID.NO.:7)

MVVS GAPPALGGGCLGTFTSLLLLASTAILNAARIPVPPACGKPPQQLNRVV  
GGEDSTDSEWPWIVSIQKNGTHHCAGSLLTSRWVITAAHCFKDNLNKPYLF  
SVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSIQF  
SERVLPICLPDASIHLPPNTHCWISGWSIQDGVPLPHPQTLQKLKVPIID  
SEVCSHLYWRGAGQGPITEDMLCAGYLEGERDACLGDSGGPLMCQVDGAWL  
LAGIISWGE GCAERNRPGVYISLSAHRSWVEKIVQGVQLRGRAQGGGALRA  
PSQGS GAAARS

**FIG. 2**



# FIG. 3



**FIG. 4****CONSTRUCT NUCLEOTIDE SEQUENCE**

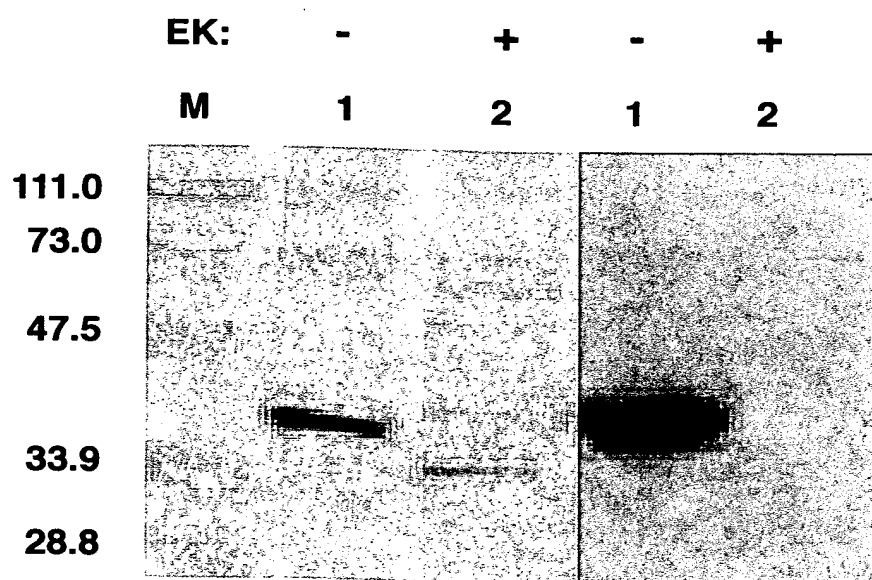
>PFEK2-C-E-HIS ERI-HCII (SEQ.ID.NO.:2)

GAATTCACCACCATGGACAGCAAAGGTTTCGTCGCAGAAATCCCGCCTGCTC  
 CTGCTGCTGGTGGTGTCAAATCTACTCTTGTGCCAGGGTGTGGTCTCCGAC  
 TACAAGGACGACGACGACGTGGACGCGGCCGCTCTTGCTGCCCCCTTTGAT  
 GATGATGACAAGATCGTTGGGGGCTATGCTCTAGAGGACAGCGAGTGGCCC  
 TGGATCGTGAGCATCCAGAAGAATGGGACCCACCACTGCGCAGGTTCCTCTG  
 CTCACCAGCCGCTGGGTGATCACTGCTGCCCCTGTTTCAAGGACAACCTG  
 AACAAACCATACTGTTCTCTGTGCTGCTGGGGGCCTGGCAGCTGGGGAAC  
 CCTGGCTCTCGGTCCCAGAAGGTGGGTGTTGCCTGGGTGGAGCCCCACCCT  
 GTGTATTCCTGGAAGGAAGGTGCCTGTGCAGACATTGCCCTGGTGCGTCTC  
 GAGCGCTCCATACAGTTCTCAGAGCGGGTCCTGCCCATCTGCCTACCTGAT  
 GCCTCTATCCACCTCCCTCCAAACACCCACTGCTGGATCTCAGGCTGGGGG  
 AGCATCCAAGATGGAGTTCCCTTGCCCCACCCTCAGACCCTGCAGAAGCTG  
 AAGGTTCCCTATCATCGACTCGGAAGTCTGCAGCCATCTGTACTGGCGGGGA  
 GCAGGACAGGGACCCATCACTGAGGACATGCTGTGTGCCGGCTACTTGGAG  
 GGGGAGCGGGATGCTTGTCTGGGCGACTCCGGGGGCCCCCTCATGTGCCAG  
 GTGGACGGCGCCTGGCTGCTGGCCGGCATCATCAGCTGGGGCGAGGGCTGT  
 GCCGAGCGCAACAGGCCCGGGGTCTACATCAGCCTCTCTGCGCACCGCTCC  
 TGGGTGGAGAAGATCGTGCAAGGGGTGCAGCTCCGCGGGGCGCGCTCAGGGG  
 GGTGGGGGCCCTCAGGGCACCGAGCCAGGGCTCTGGGGCCGCGCGCTCC  
 TCTAGACATCACCATCACCATCACTAGCGGCCGCTTCCCTTTAGTGAGGGT  
 TAATGCTTCGAGCAGACATGATAAGATAATTGATGAGTTTGGACAAACCA  
 CAACTAGAATGCAGTGAAAAAATGCTTTATTTGTGAAATTTGTGATGCTA  
 TTGCTTTATTTGTAACCATTATAAGCTGCAATAAACAAGTTGAC

**FUSION PROTEIN**

>PFEK-C-E-HIS (SEQ.ID.NO.:8)

MDSKGSSQKSRLLLLLLVVSNLLLCQGVVSDYKDDDDVDAA<sup>1</sup>ALAAPFDDDDK<sup>1</sup>  
 IVGGYAL<sup>1</sup>EDSEWPWIVSIQKNGTHHCAGSLLTSRWVITA<sup>1</sup>AHCFKDNLNKPY<sup>1</sup>  
 LFSVLLGAWQLGNPGSRSQKVGVAWVEPHPVYSWKEGACADIALVRLERSI<sup>1</sup>  
 QFSERVLPICLPDAS<sup>1</sup>IHLPPNTHCWISGWGSIQDGVPLPHPQTLQKLKVPI<sup>1</sup>  
 IDSEVCSHLYWRGAGQGPIT<sup>1</sup>EDMLCAGYLEGERDACLGDSGGPLMCQVDGA<sup>1</sup>  
 WLLAGIISWGE<sup>1</sup>GCAERNRPGVYISLSAHR<sup>1</sup>SWVEKIVQGVQLRGRAQGGGAL<sup>1</sup>  
 RAPSQGS<sup>1</sup>GAAARSSRHHHHH

**FIG. 5**

Protease: PFEK-Protease C-E-HIS

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